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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/785,401	02/25/2004	Manfred Hochkoenig	028987.53207US	9804

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 CROWELL & MORING LLP
 INTELLECTUAL PROPERTY GROUP
 P.O. BOX 14300
 WASHINGTON, DC 20044-4300

EXAMINER	
COLLADO, CYNTHIA FRANCISCA	
ART UNIT	PAPER NUMBER
3618	

DATE MAILED: 08/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/785,401

Applicant(s)

HOCHKOENIG ET AL.

Examiner

Cynthia F. Collado

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 February 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 February 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2/26/2003 3/4/03
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

1. Claim 1-5, 7-11 and 13-19 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Ashe et al'299 (Us Patent No.6, 431,299).

Referring to claims 1,7,13 and 19, Ashe discloses a cooling system for an automotive drive unit for a drive unit such as an internal combustion engine situated in a rear end of a vehicle with respective transmission (see figure 5, element 34), a covering panel part situated beneath the drive unit as part of a covering panel part situated beneath the drive unit as part of a covering undercarriage of a vehicle superstructure, wherein a warmer air layer zone formed on an engine side is layered above oncoming air supplied to a transmission case through air inlets in the covering panel part of the undercarriage, forming a cold air layer zone, and wherein a temperature interface develops between the cold air and the warmer air layer zones, temporarily running approximately in an area of an upper border of the transmission case and through a lower partial area of an engine housing which is connected to the transmission case, (although the prior art fails to state that the temperature interface develops between the cold air and the warmer air layer zones, examiner takes official notice that it's inherent when you have different temperatures, the temperature interface will occur, see MPEP 2144.02 "reliance on scientific theory").

Referring to claim 2,3,4,8,9,10,14,15,16 and 18, Ashe discloses wherein the air inlets are provided on a front side, as seen in a direction of travel, beneath the transmission case in the covering panel part of the undercarriage, and wherein air outlet openings are provided at the rear beneath the engine housing in an installation space (see figure 5, element 54,34 and 51) and (see figure 4, element 47 and 54 for air inlet opening).

Referring to claim 5,11 and 17, Ashe discloses an air blower provided for the engine at the top in an installation space, and wherein said scavenging air blower has compressed air inlet supply which acts upon the warmer air layer zone (see figure 5, element 46).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.

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4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

4. Claims 6 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ashe et al'299 (Us Patent No.6, 431,299).

Referring to claims 6 and 12, although Ashe fails to disclose the increase of air flowing into the installation space, examiner takes official notice, when there is an increase of airflow the cold air layer zone can be enlarged as a function of the driving speed of the vehicle and can increase in size upward due to air flowing into the installation space through the air inlets, displacing the hot air layer zone upward, and wherein an outward flow of hot air on the engine side through the air outlet openings can be achieved based on the principles of fluid dynamics.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.


US Patent No 6,431,299 issued to Eggert, Jr. teaches a cooling air ducting for excavator.

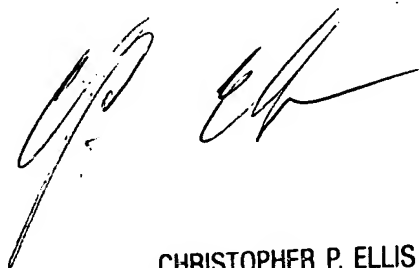
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia F. Collado whose telephone number is (571)2728315. The examiner can normally be reached on mon-fri 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Ellis can be reached on (571)2726914. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


CFC 7/8/05



CHRISTOPHER P. ELLIS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600